PATENT SPECIFICATION

244,258

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COMPLETE SPECIFICATION.

Improved Aerial Projectile.

I, Archibald Montgomery Low, Captain in His Majesty's Army, of Royal Flying Corps, Experimental Works, Feltham, Middlesex, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to aerial projectiles of the type comprising an aeroplane fitted with engine and propeller and carrying a charge of explosive and/or incendiary material suitably positioned in the body of the aeroplane.

The object of the present invention is to provide an aerial projectile of the above character which may be satisfactorily operated and controlled in practice and the invention consists in an aerial projectile of the type referred to fitted with wireless control mechanism such as is described in my Specification No. 244,203.

The invention further consists in an aerial projectile of the type referred to provided with actuating gear of the kind described in my Specification No. 195,101.

The invention further comprises the particular form of aerial projectile hereinafter described and illustrated.

The accompanying drawings illustrate one form of aerial projectile in accordance with the invention,

Figure 1 being a plan while

Figure 2 is a front elevation.

In carrying my invention into effect in the manner illustrated I form my improved aerial projectile as an ordinary aeroplane of suitable size, type and construction and comprising a body portion *a*, engine *b*, propellor *c* and wings or planes *d*, and I locate in any suitable compartment, receptacle or reservoir such as *e* formed in, upon, or by the body of the aeroplane a charge of any suitable high explosive or other explosive charge or an incendiary charge or combined explosive and incendiary charge, the nature of the charge depending upon the purpose for which the projectile is designed.

The projectile when started as, for example, by launching the same from the ground or from any other support if necessary by suitable launching means, will be self-propelling in the manner of an ordinary aeroplane and thereafter it is desirable that the projectile should be susceptible of control, adjustment or regulation for which purpose I arrange the same to be controlled wirelessly in any suitable manner. For example, I may provide the aeroplane with a control mechanism *f* such as is described in my Specification No. 244,203 and in conjunction therewith I provide actuating gear *g* such as is described in my Specification No. 195,101, the movable controllable members of such gear being connected by wires, cords, chains or the like with the elevating planes *h* and rudder *i* and other device or devices, the position of which it may be desired to adjust for the purpose of controlling the projectile during flight.

The control mechanism *f* is preferably mounted in position by means of springs or indiarubber or other resilient suspension bands or strips and may be contained in a box or casing having a celluloid or other suitable cover, and the projectile may be provided with any suitable wireless receiving arrangement as, for example, it may be adapted to be fitted with means for producing a smoke aerial

[*Price* 1/-]

Price 4s 6d

formed by the exhaust from the internal combustion engine as described in my Specification No. 191,406.

The aeroplane may be provided with skids such as *k* or other arrangements by which it may be supported upon the carriage of the launching mechanism employed or it may be otherwise adapted to be given the initial projection into the air which will enable it to start upon its journey, and it will be understood that the charge carried by the projectile may be exploded or ignited by wireless means or by percussion operated means brought into operation when the projectile hits the ground or any other extraneous object.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. An aerial projectile of the type referred to fitted with wireless control mechanism as described in my Specification No. 244,203.

2. An aerial projectile as claimed in Claim 1 provided with actuating gear as described in my Specification No. 195,101.

3. An improved aerial projectile of the type referred to, substantially as hereinbefore described and as illustrated by the accompanying drawings.

Dated this 11th day of December, 1917.

MARKS & CLERK.

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[This Drawing is a reproduction of the Original on a reduced scale.]

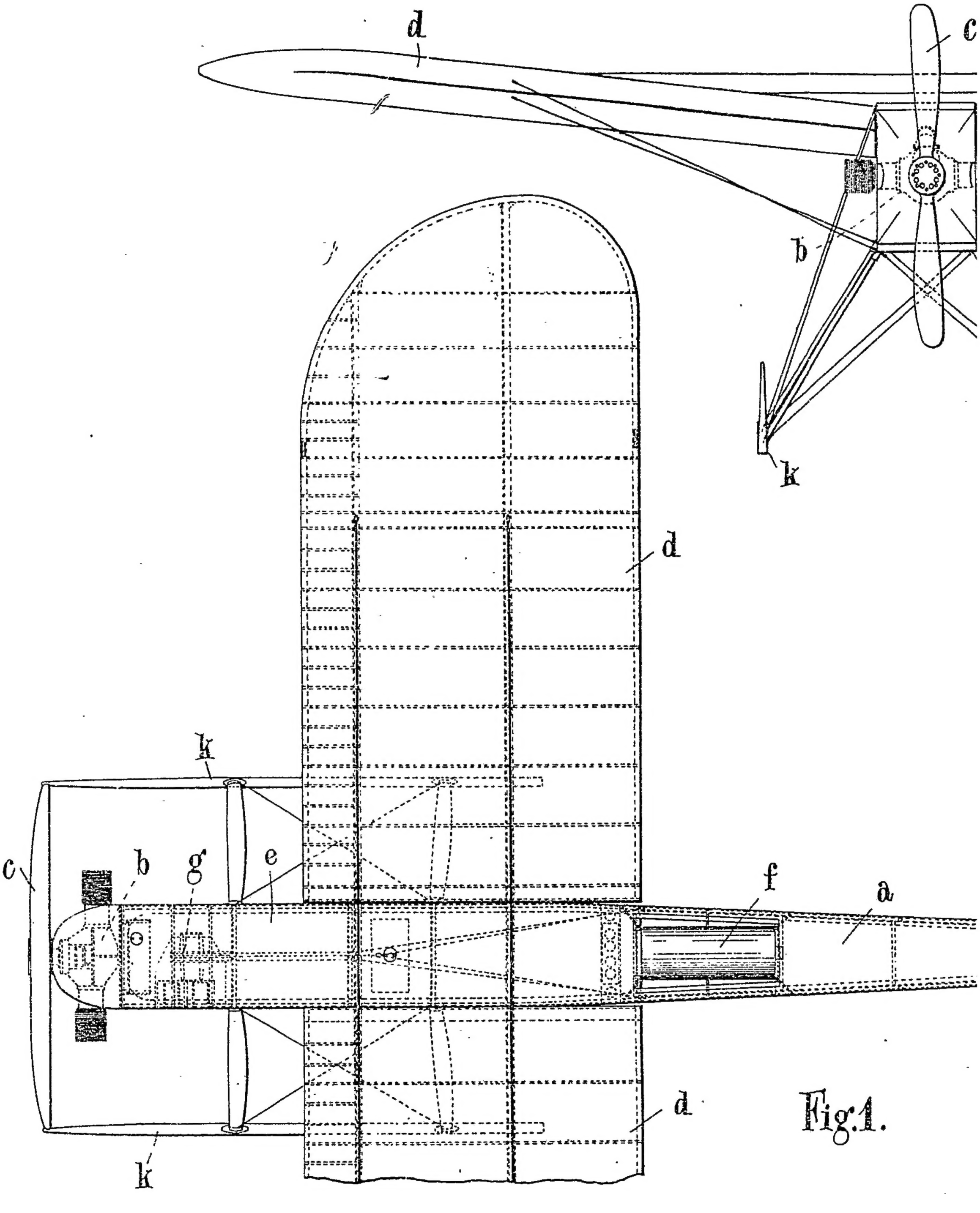

Fig.1.

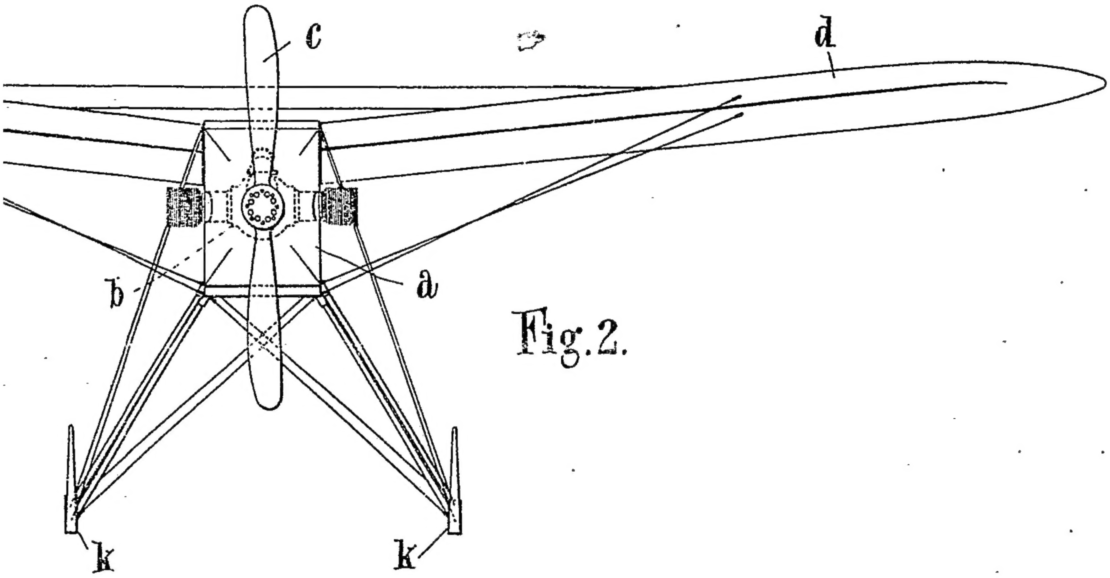

Fig. 2.

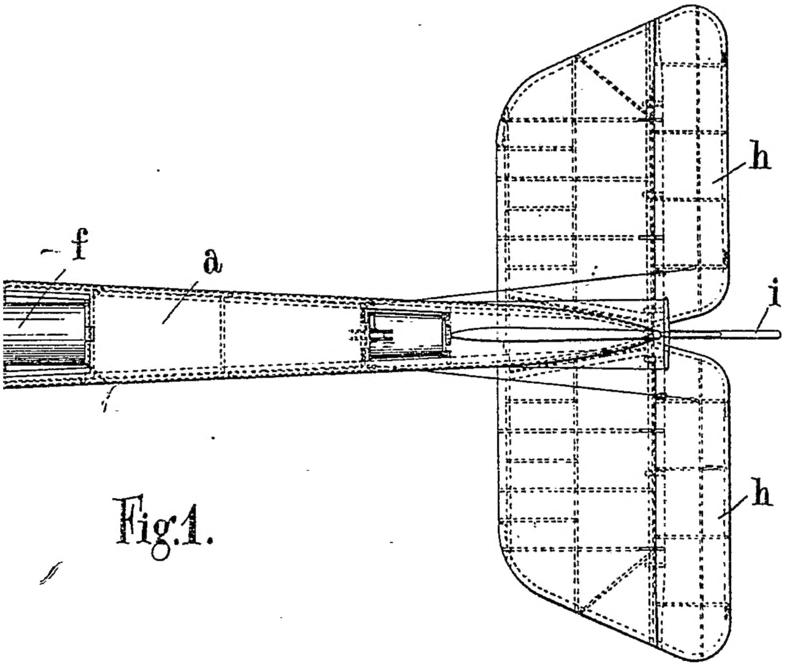

Fig. 1.

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1 SHEET

[This Drawing is a reproduction of the Original on a reduced scale]

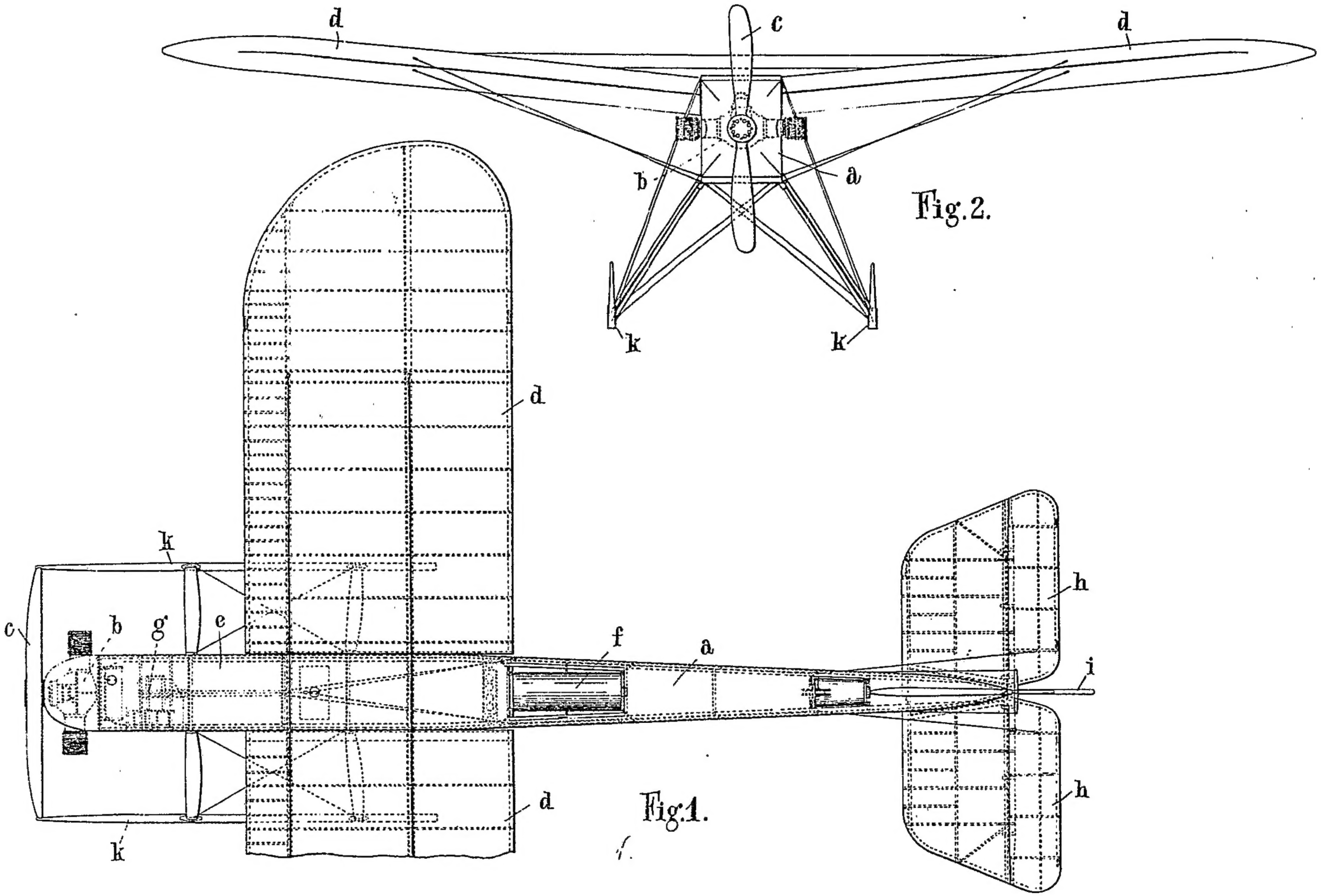

Fig. 2.

Fig. 1.

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